

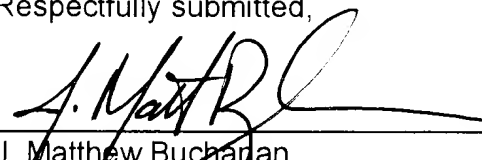
REMARKS

This Preliminary Amendment has been filed prior to receipt of an action on the merits. Applicants have herein amended the pending claims in the subject application by canceling claims 1 through 38, 50, and 51, amending claims 39 and 49 and adding new claims 52 through 76. The newly added claims are fully supported by the specification of the pending application and do not narrow the scope of the protection sought.

Examination of this patent application is requested.

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Respectfully submitted,


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APPENDIX A

39. (Amended) A cell that produces a glycoconjugate of interest in the absence of an exogenously supplied nucleotide triphosphate, the cell comprising heterologous genes encoding one or more sugar-nucleotide regenerating enzyme and one or more glycosyltransferase.

49. (Amended) A method of producing a glycoconjugate of interest in the absence of an exogenously supplied nucleotide triphosphate, comprising the step of contacting a cell comprising heterologous genes encoding:

- (i). one or more encoding sugar-nucleotide regenerating enzymes selected from the group consisting of GalK, GalT, GalU, PykF, Ndk, PpK, AcK, PoxB, Ppa, PgM, NagE, Agm1, glmU, a GalNAc kinase, a pyrophosphorylase, Ugd, NanA, Cmk, NeuA, Alg2, Alg1, SusA, ManB, ManC, a phosphomannomutase, GalE, GMP, GMD, and GFS; and
- (ii). one or more glycotransferase,

with a bioenergetic.